

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
15 March 2001 (15.03.2001)

PCT

(10) International Publication Number
WO 01/19075 A2

(51) International Patent Classification⁷:
H04B 7/08

H04N 5/21,

(74) Agents: TRIPOLI, Joseph, S. et al.; Thomson multimedia
Licencing Inc., P.O. Box 5312, Princeton, NJ 08540 (US).

(21) International Application Number: PCT/US00/24708

(22) International Filing Date:

8 September 2000 (08.09.2000)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/152,859

8 September 1999 (08.09.1999) US

(71) Applicant (for all designated States except US): THOM-
SON LICENSING S.A. [FR/FR]; 46, quai Alphonse Le
Gallo, F-92648 Boulogne Cedex (FR).

(72) Inventors; and

(75) Inventors/Applicants (for US only): CRANOR, Thomas,
Howard, Bruce [US/US]; 9503 Nora Lane, Indianapo-
lis, IN 46240 (US). HALL, Edward, Allen [US/US]; 868
Desert Wind Court, Carmel, IN 46032 (US).

(81) Designated States (national): AE, AG, AL, AM, AT, AU,
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ,
DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR,
HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO,
NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR,
TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.

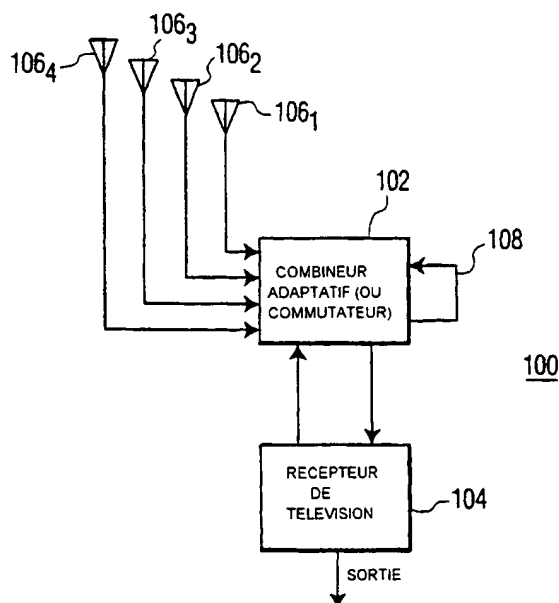
(84) Designated States (regional): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian
patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European
patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE,
IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG,
CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published:

— Without international search report and to be republished
upon receipt of that report.

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: METHOD AND APPARATUS FOR REDUCING MULTIPATH DISTORTION IN A TELEVISION SIGNAL



WO 01/19075 A2

(57) Abstract: A method and apparatus for reducing multipath distortion in a television signal includes a plurality of antenna elements for receiving spatially unique replicas of a desired television signal. The plurality of spatially unique replicas of the television signal are coupled to an adaptive combiner for generating a spatially combined signal to be input to a television receiver.